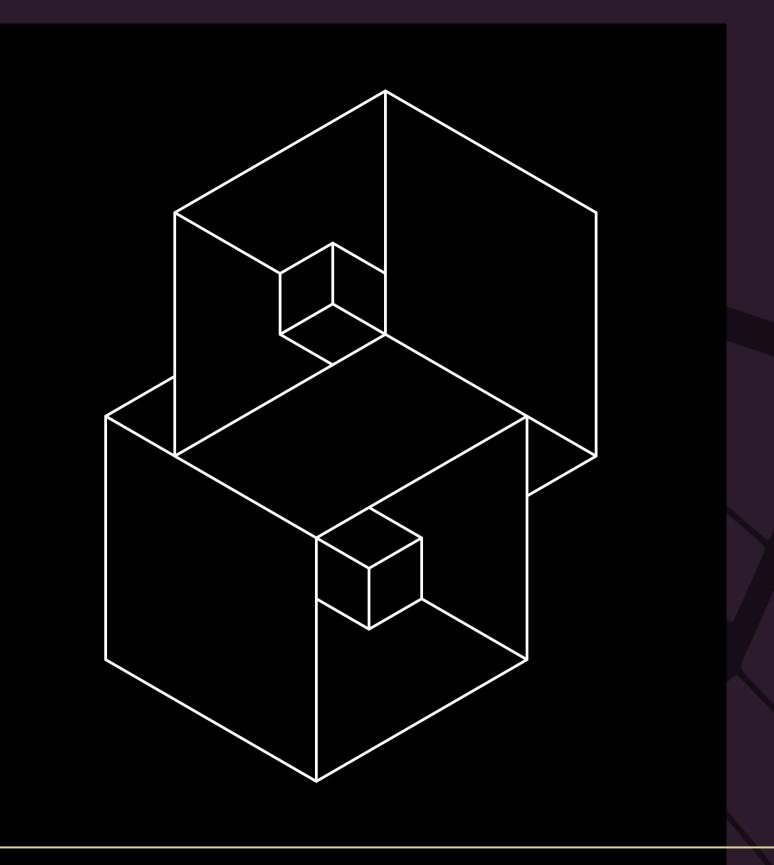
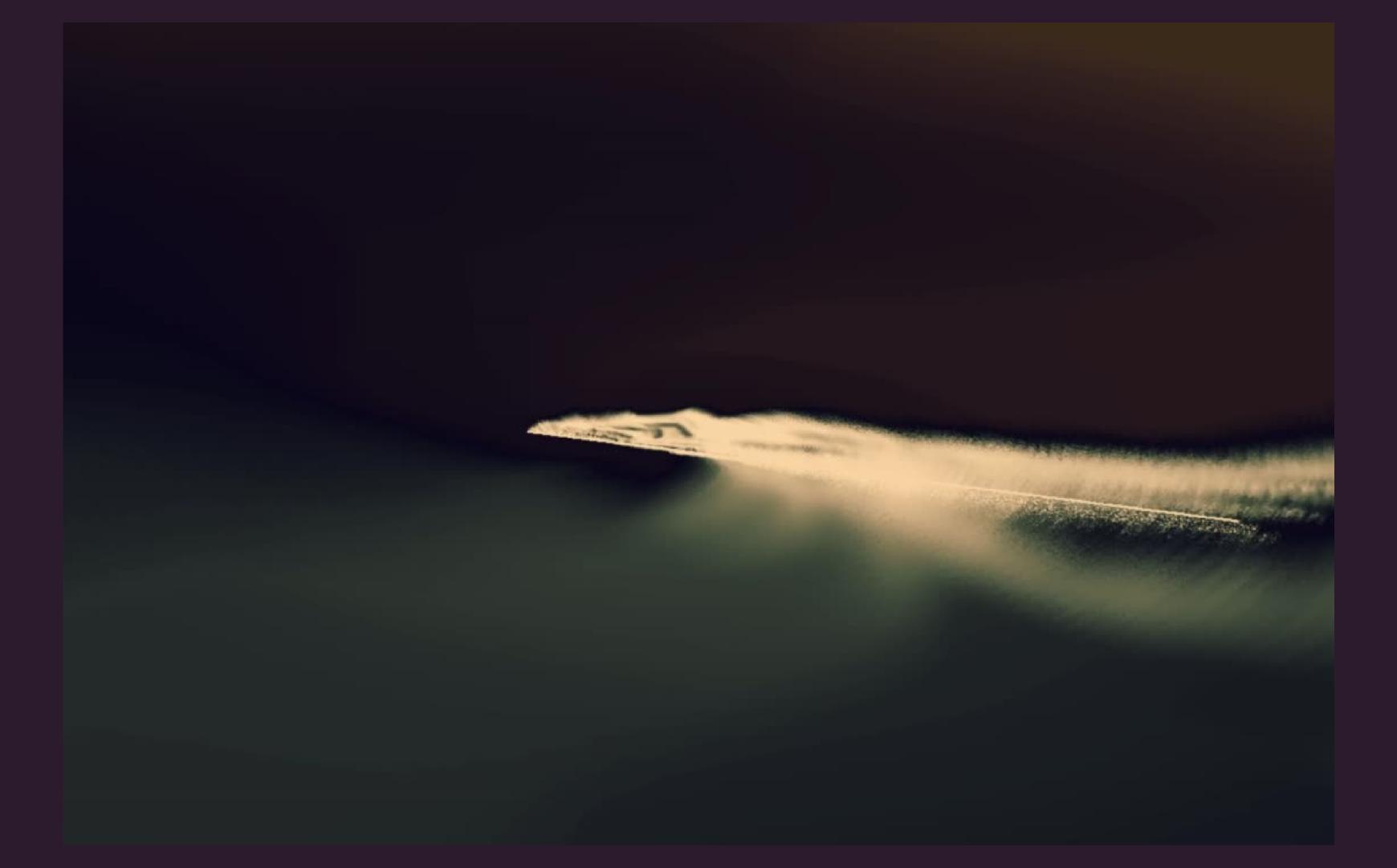
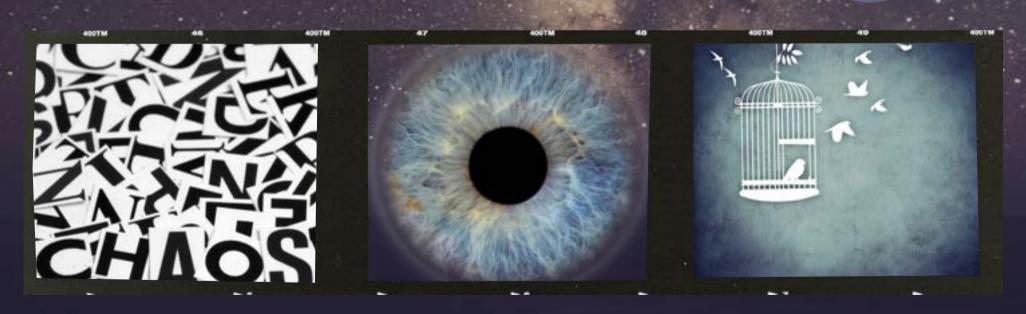
FIND THE WRITE RHYTHM FOR YOUR SOFTWARE COMPÓSITION

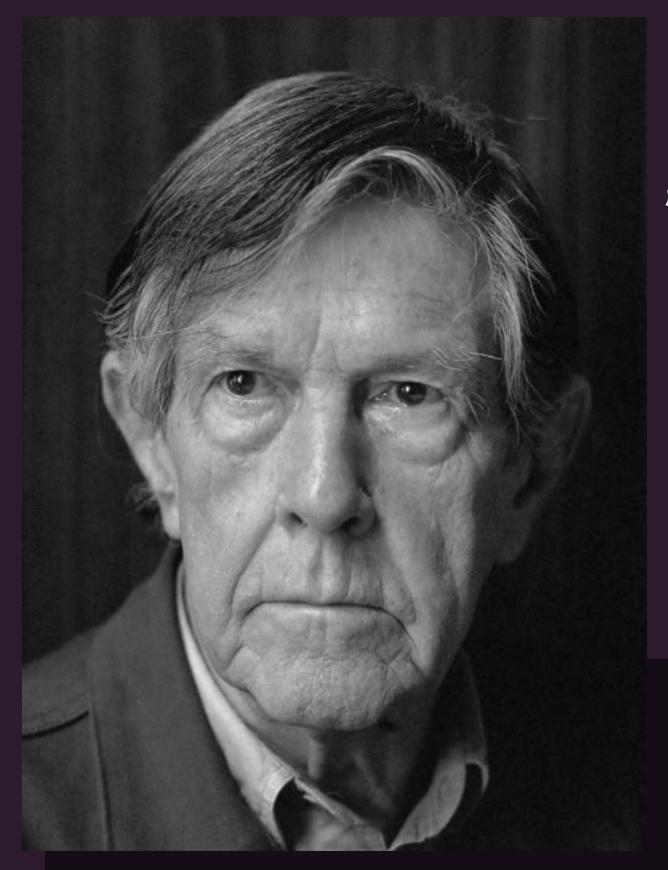


Jordan Miller @lambduhh Lambda Days 2023



DO YOU RECOGNIZE THIS?





"I have nothing to say,
I am saying it,
and that is poetry."

JOHN CAGE

1912 - 1992



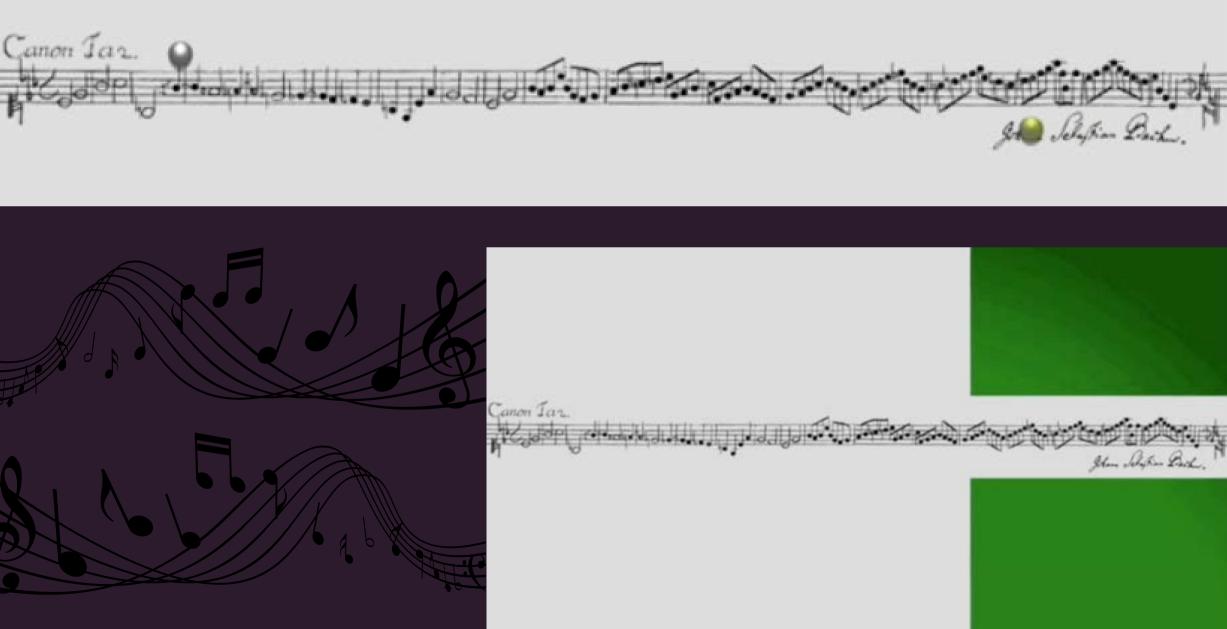
De Yeu RECEGNIZE THIS?



JS BACH

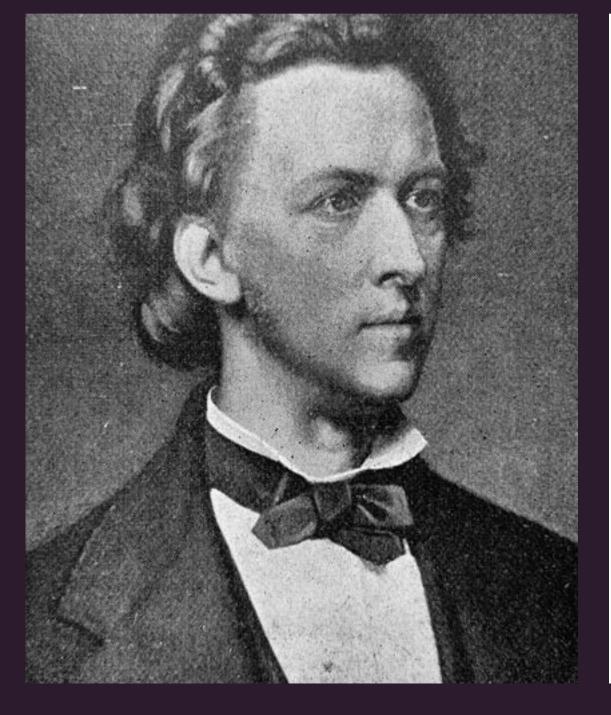
(AKA "OLD BACH")





FREDERIC CHOPIN

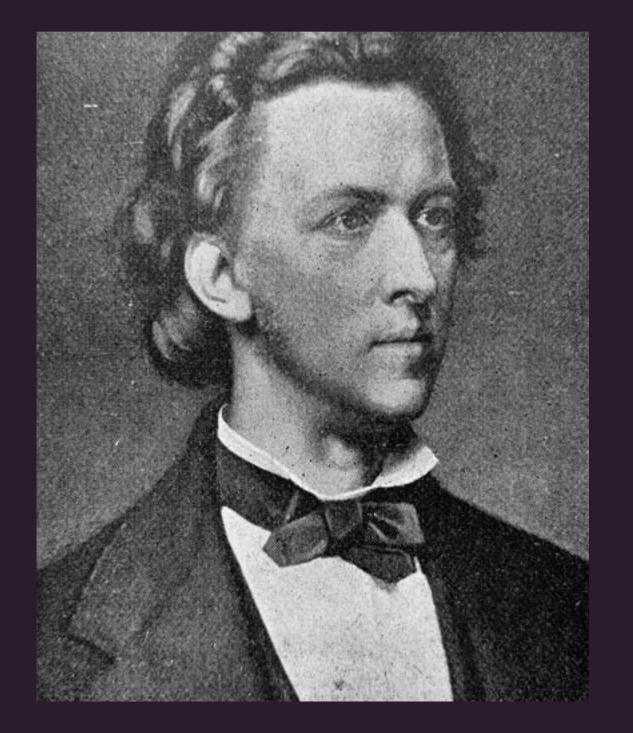
(1810-1849)





FREDERIC CHOPIN

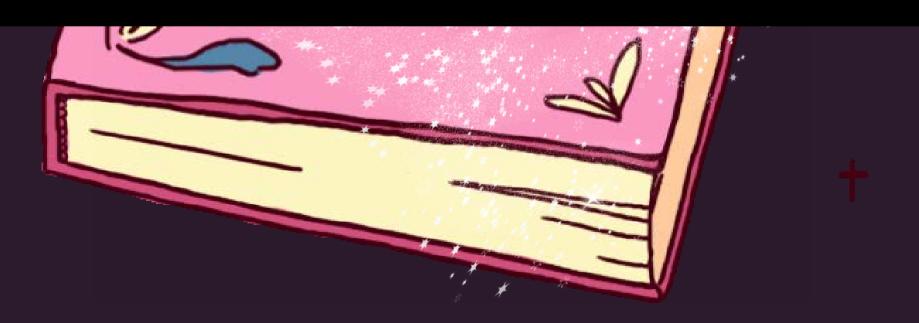
(1810-1849)







ONCE UPON ATIME... AT VOUCH





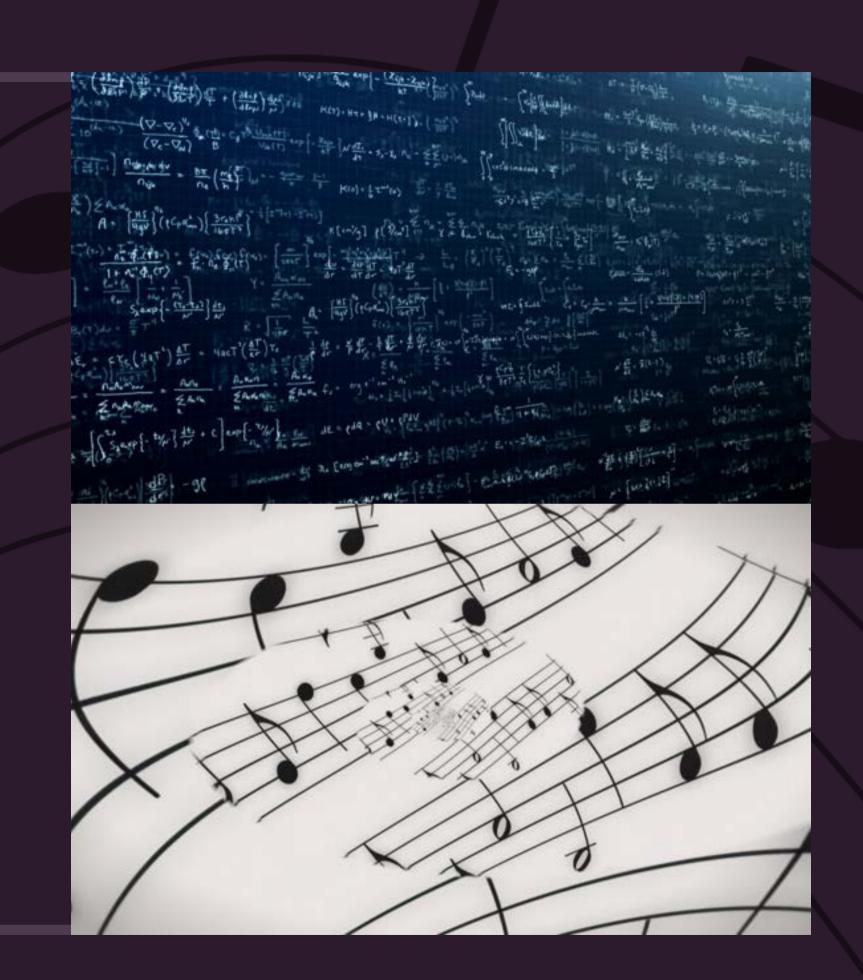


UH 9H, D9CUMENTATION W9ES



MUSIC THEORY

- HOW MUSIC WORKS,
 - TL;DR IT'S ALL JUST MATH





Do You RECOGNIZE THIS?





INTELLIGENCE LOVES PATTERNS

```
3 ;; Define the subject as list of notes
4 (def subject ["A" "D" "E" "A"])
5
6 ;; Define generic procedure with multi arity options
7 (defmulti play (λ [pattern transformation &args] transformation))
8
9 ;; Returns subject, does not modify
10 (defmethod play :default [_ _] subject)
11
```

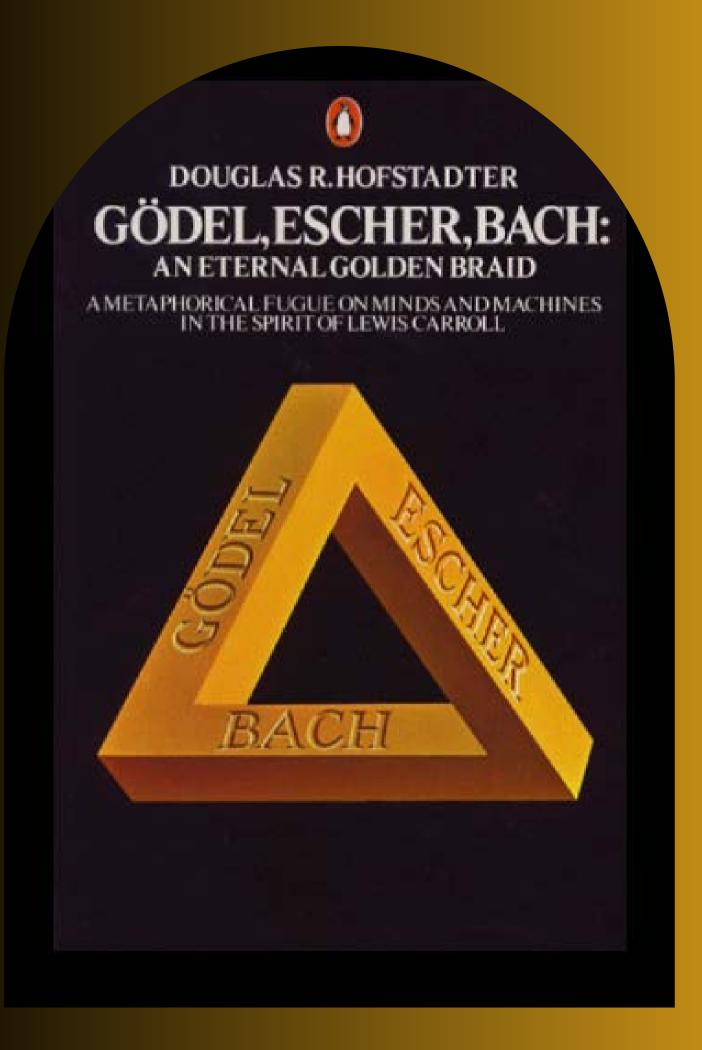
INTELLIGENCE LOVES PATTERNS

```
3 ;; Define the subject as list of notes
   (def subject ["A" "D" "E" "A"])
6 ;; Define generic procedure with multi arity options
   (defmulti play () [pattern transformation &args] transformation))
9 ;; Returns subject, does not modify
10 (defmethod play :default [_ _] subject)
12 ;; Reverses subject
13 (defmethod play :retrograde [_ _] (reverse subject))
15 ;; Changes the key
16 (defmethod play :transpose-minor [_ _] (map #(str % "m") subject))
```

INTELLIGENCE LOVES PATTERNS

```
;; Define the subject as list of notes
   (def subject ["A" "D" "E" "A"])
 6 ;; Define generic procedure with multi arity options
 7 (defmulti play (λ [pattern transformation &args] transformation))
9 ;; Returns subject, does not modify
10 (defmethod play :default [_ _] subject)
12 ;; Reverses subject
13 (defmethod play :retrograde [_ _] (reverse subject))
15 ;; Changes the key
16 (defmethod play :transpose-minor [_ _] (map #(str % "m") subject))
18 ;; Creates crab canon
  (defmethod play :mobius [__]
    (let [half (quot (count subject) 2) ;; find half of the subject
20
          first-half (subvec subject 0 half) ;; create list of the first half
          second-half (reverse (subvec subject half))] ;; create list of second half, reverse
       (concat first-half second-half first-half))) ;; combine into continous mobius strip
```

```
;; Define the subject as list of notes
  (def subject ["A" "D" "E" "A"])
 6 ;; Define generic procedure with multi arity options
  (defmulti play (λ [pattern transformation &args] transformation))
 9 ;; Returns subject, does not modify
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    (let [half (quot (count subject) 2) ;; find half of the subject
          first-half (subvec subject 0 half) ;; create list of the first half
          second-half (reverse (subvec subject half))] ;; create list of second half, reverse
      (concat first-half second-half first-half))) ;; combine into continous mobius strip
25 (comment
    (play "original" :default)
    ;; => ["A" "D" "E" "A"]
    (play "backwards" : retrograde)
    ;; => ("A" "E" "D" "A")
    (play "to-minor-key" :transpose-minor)
    ;; => ("Am" "Dm" "Em" "Am")
    (play "crab-canon" :mobius)
    ;; => ("A" "D" "A" "E" "A" "D")
```



Chapter VI:

THE LOCATION OF MEANING

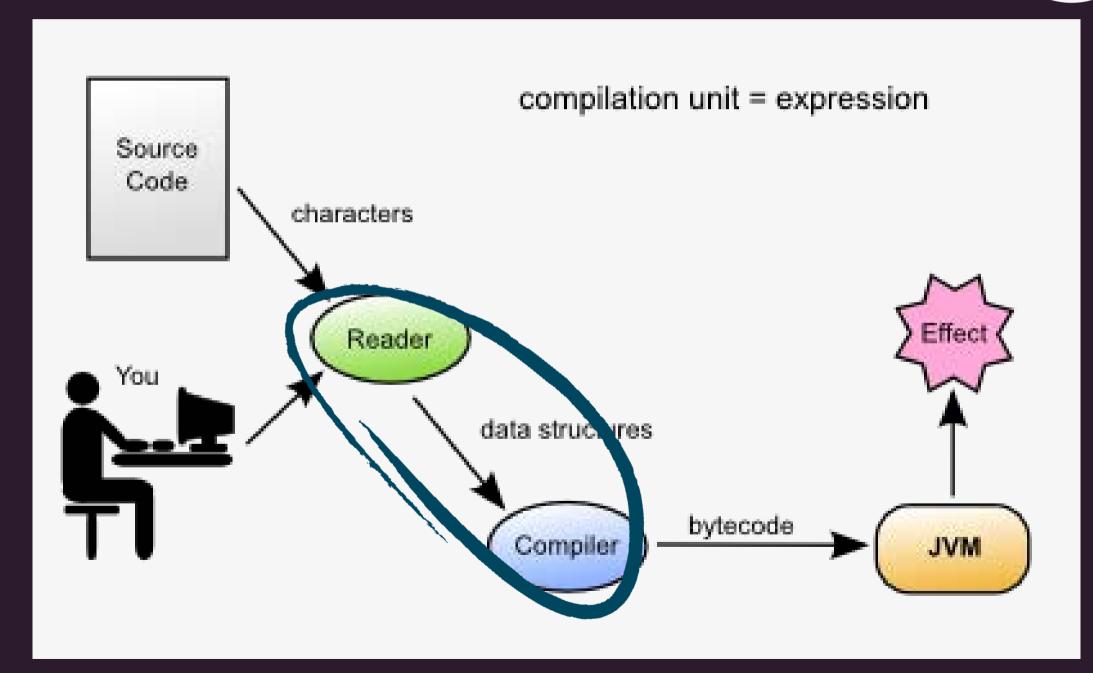
TO FIND LOCATION OF MEANING WE MUST CONSIDER 3 LEVELS OF UNDERSTANDING



TRAME

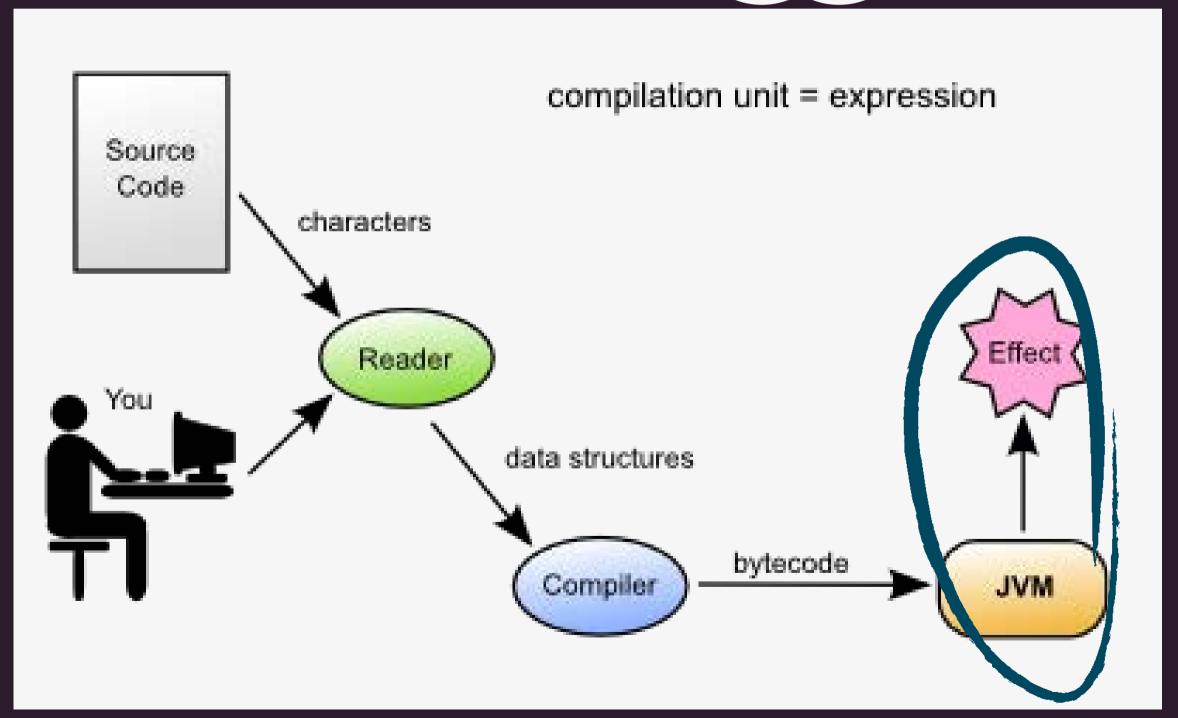
```
(define divide-list
               ((<= (car s1) (car s2)) (cons (car s1) (merge (cdr s1) s2)))
              (else (cons (car s2) (merge s1 (cdr s2)))))))))
(define merge-sort
 (lambda (l . pred?)
    (let ((<= (if (null? pred?) <= (car pred?))))
            (merge (merge-sort (car divided-list) <=)
                    (merge-sort (cdr divided-list) <=)<=))))))</pre>
```

SOUTER MESSAGES

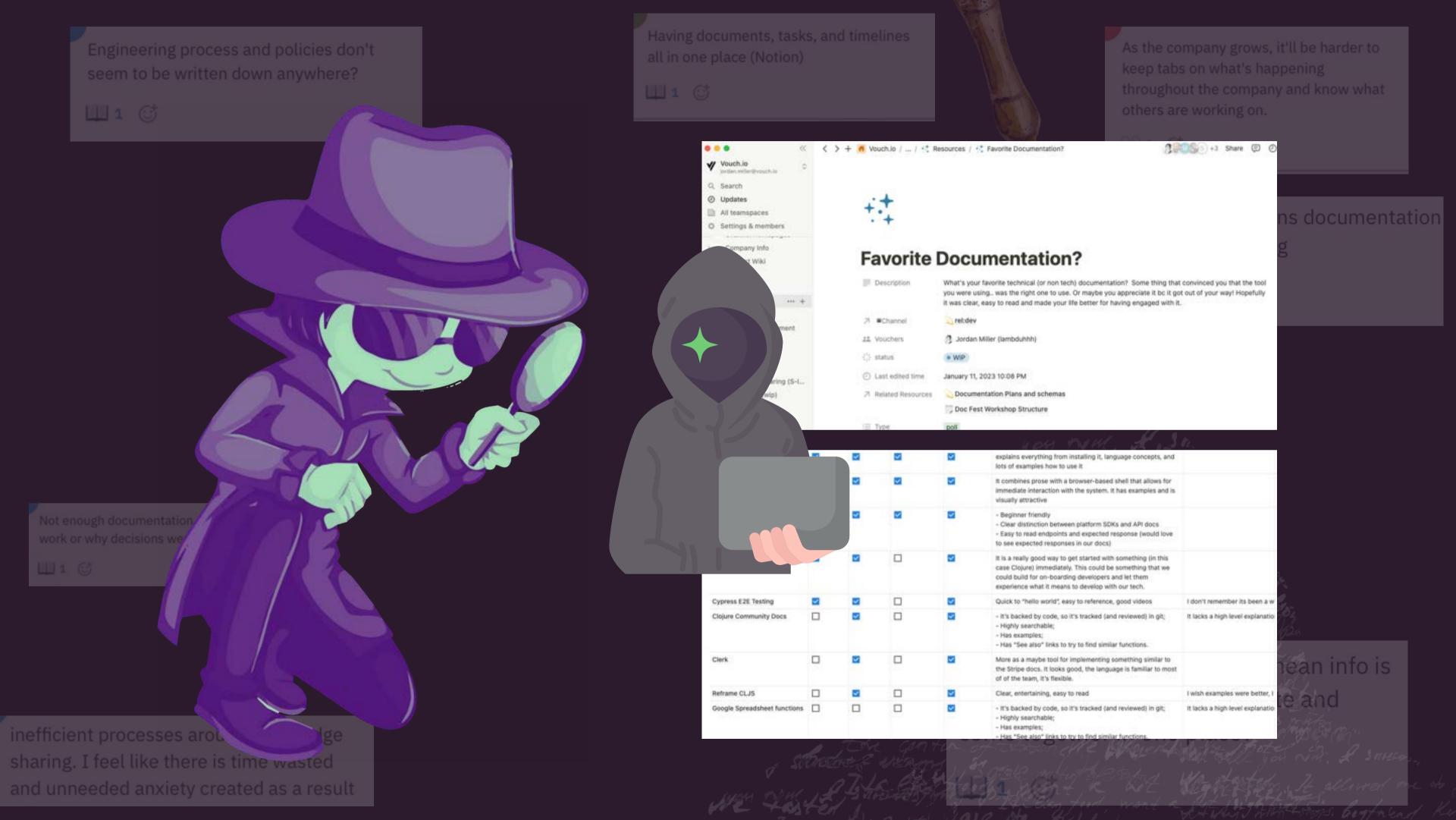




3 INNER MESSAGE







Tutorials

How to Guides



Explanation

Reference

Tutorials

for learning



How to Guides

for tasks





Explanation *for background*



Reference
quick info

Pure Danger Tech



navigation home

The Miller Principle

11 Jul 2007

I made this up years ago but it holds today as much as ever:

The Miller Principle: No one reads anything.

This principle applies to the following:

- User documentation
- Specifications
- · Code comments
- · Any text on a user interface
- Any email longer than one line

I had some other principles too but I figured no one would read them....:)

Alex Miller



- 8 SESSIONS
- 4 HOURS
- 3-6 PEOPLE PER SESSION
- 45 MIN TALK ON DIATAXIS
- 3 GROUP ACTIUITIES
- RECURSIUE IMPROUEMENT
 UIA FEEDBACK SURUEY



Intention:

We are here to participate in an experience that gives us a **shared understanding** of how to produce high quality technical documentation.

RECOGNIZE SUCCESS!







SHORTER TIME ONBOARDING



NEW ARTIFACTS COMPLETED

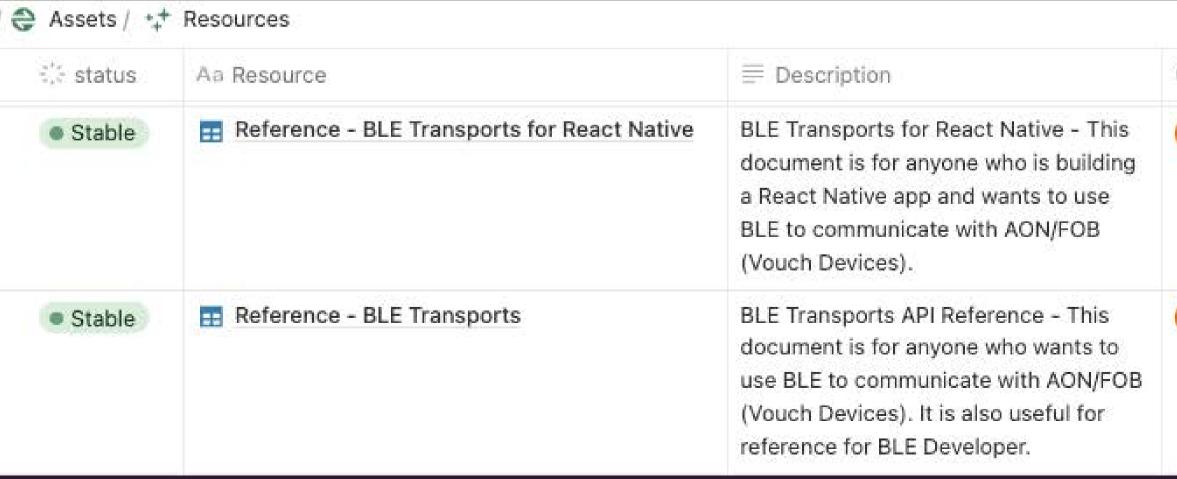
		system.							
How to avoid 401 error code/unauthorized communication between mop bridge and digital-key api	Stable	When creating a new environment, doing rollbacks or simply changing infrastructure, mop bridge needs to have its crypto identity enrolled to be able to comunicate with digital-key api	How to Guide	Documentation	3 Jordan Miller (lambduhh	Matheus Afinovicz	Build how to avoid mop b	relidev Toyota Delivery Software DevOps + Infrastructure	Voucher Internal
How to access datadog logs for deployed environments	Stable Stable	Directs the user in accessing datadog and checking logs for deployes environments.	How to Guide	Documentation		Matheus Afinovicz	h Write how to access data	relidev ■ Software Vouch Key Auto Dogfooding & Testing DevOps + Infrastructure	Voucher Internal
How to Init Auth for Software Dev- Configuring Git, AWS, SSH	Stable	Authentication required for a software developer to git set up to allow them to develop vouch apps. (Formerly in "Dev Startup)	Documentation	How to Guide	Heather Stijn Ophe	Jordan Miller (lambduhhh		■ Software	Voucher Internal
MF How to configure Intellij REPL for cijs software dev	■ Complete	How to configure the REPL using cursive in the Intellij IDE (Formerly in "Dev Startup")	Documentation	How to Guide		3 Jordan Miller (lambduhhh		Software	Voucher Internal
Tutorial: Change service code without restarting Docker container	Complete	A lesson that contains practical steps and serves our study.	Documentation	Tutorial	3 Jordan Miller (lambduhh	Bernard Labno	U Create Tutorial on how to	relidev Software Product	Voucher Internal
How to git update all vouch repos	Stable	Ever wanted to pull all your repos at once? check this out.	Documentation	How to Guide	ips ar 🤩 Heather 🤨 Vinícius Pi	Jordan Miller (lambduhhh		Software	Voucher Internal
How to track errors with stack-trace	* WP	Directs the user in finding the place where errors happening using the stack-trace.	How to Guide	Documentation	& Giorgio Rossa	🐇 Giorgio Rossa	(h) Write How-To-Guide on S	srelidev = Software	Voucher Internal
MFikes shares a way to skip zephyr flash	* Stale	A discord private discussion brought out to light	Explanation C	Documentation		3 Jordan Miller (lambduhhih		Software Firmware	
Reference - Nordic Board nRF6340 DK from Digikey, Manufacture Documentation	Stable	Documentation provided by the manufacture of nRF5340 board. Includes component reference diagram, video explainer and PDF download. See links to their documentation portal for further reading.	Reference Guid	de Documentation	Arc 🤰 Jordan Miller (lambduhh	3 Jordan Miller (lambduhhh	making HowTo guide for	rel:dev Dogfooding & Testing Hardware Firmware Software	Sharable

JEATURES INTEGRATED MORE QUICKLY











CONSIDER THE OUTER MESSAGE YOU'UE PROUIDED AND THE INNER MESSAGE YOU ARE TRYING TO COMMUNICATE

OUTER MESSAGE

1. Consider your team documentation practices a.are your technical artifacts *on the same page or playing out of tune*?

i. How good is your **Outer Message**?

(D) O C

INDIUIDUALISTIC

UNIUERSAL

INNER MESSAGE

- 1. Consider your code
 - a. is it conventional?

organized?

or complex?

ORGANIZED



COMPLEX





- docs optimized for UX
- kept up to date
- spec/schema
- strong/static typed
- 100% test coverage
- documentation that leverages shared language
- use framework as intended
- extend syntax w doc strings, metadata
- prioritize code readability over fanciness



- docs optimized for UX
- kept up to date
- spec/schema
- 100% test coverage
- documentation that leverages shared language
- use framework as intended
- extend syntax w doc strings,
 metadata
- prioritize code readability

"Good enough" to start up

- readme Exists with essentials
- partial test coverage
- spec/schema/types
- your own flavor of <insert-framework>



- docs optimized for UX
- kept up to date
- spec/schema
- 100% test coverage
- documentation that leverages shared language
- use framework as intended
- extend syntax w doc strings, metadata
- prioritize code readability

"Good enough" to start up

- readme Exists with essentials
- partial test coverage
- spec/schema
- your own flavor of <insert-framework>

"Research and Development"

- o no docs
- o no tests
- o no consistent style



- docs optimized for UX
- kept up to date
- spec/schema
- 100% test coverage
- documentation that leverages shared language
- use framework as intended
- extend syntax w doc strings, metadata
- prioritize code readability

Greenfield project

- you have time so document everything as you dev it
- spec/schema
- okay test coverage
- accidentally made your own flavor of react

Well planned new product

- Documented ideation process and pre proj planning
- bespoke project architecture
- complex implementation

A few stable clients

- swagger and apis documented
- code readability
- consistent code style across codebase
- partial test coverage
- spec/schema

"Good enough" to start up

- readme Exists with essentials
- partial test coverage
- spec/schema
- your own flavor of <insert-framework>

Quickly developed feature for client

- why/how and user journey not documented
- product version of readme
- new feature branch (20+ commit)

solo dolo, "that cranky guy; he'd prob share his emacs config tho"

- personal org-mode
- code

startup, experienced engineers "two pizza team"

- automated docs?
- code style = consistent

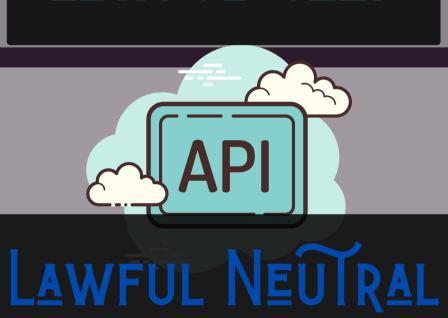
"Research and Development"

- Moving quick!
 - no docs
 - no tests
 - no consistent style

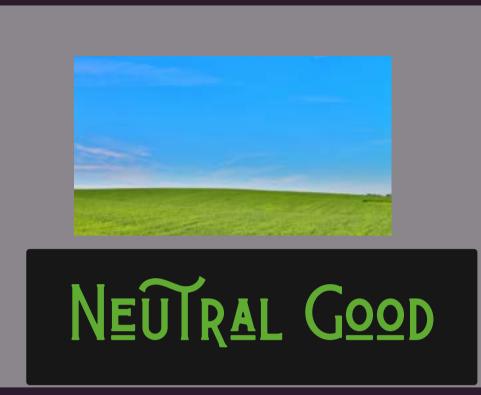




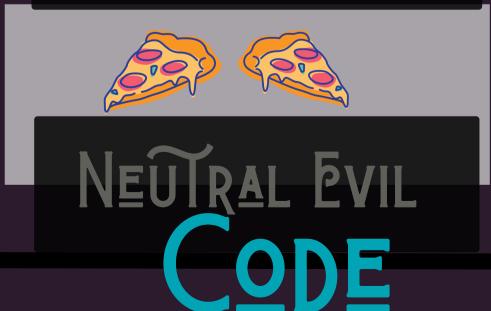
LAWFUL GOOD

















CHHOTIC





@lambduhh